

[illegible]

# TRANSMITTAL FORM

JC474 U.S. PTO  
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07/09/02

Electronic Version 1.0.3

Stylesheet Version: 1.0

Attorney Docket  
Number:

JH-  
003

Submission Type: Utility Patent  
Filing

## Diffusion-Based System and Method for Detecting and Monitoring Activity of Biologic and Chemical Species

First Named Inventor: Mr John J. Hefti

### SUBMITTED BY

Name:	Mr. Clifford B. Perry
Registration Number:	43854
Electronic Signature Mark: /s/	Date Signed: 20020709

*I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.*

*I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

### Attached Files:

declaration	decpg1.tif
declaration	decpg2.tif
us-information-disclosure-statement	efsids.xml

$$\begin{aligned} & \left( \frac{\partial}{\partial t} + \nabla_{\vec{v}} \right) f = - \nabla_{\vec{v}} \cdot (\vec{v} f) \\ & \left( \frac{\partial}{\partial t} + \nabla_{\vec{v}} \right) g = - \nabla_{\vec{v}} \cdot (\vec{v} g) \end{aligned}$$

specification  
bibd-transmittal  
fee-transmittal

jh-003v3.xml  
efsapds.xml  
efsfee.xml

**Attached Image File(s):**

decpg1.tif  
decpg2.tif

**Comments:**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)</b>		<b>Attorney Docket Number</b> JH-003
<input checked="checked" type="checkbox"/> Declaration Submitted with Initial Filing		<b>First Named Inventor</b> Hefti
OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)		<b>COMPLETE IF KNOWN</b>
		<b>Application Number</b>
		<b>Filing Date</b>
		<b>Art Unit</b>
		<b>Examiner Name</b>

**As the below named Inventor, I hereby declare that:**

**My residence, mailing address, and citizenship are as stated below next to my name.**

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

## Diffusion-Based System and Method for Detecting and Monitoring Activity of Biologic and Chemical Species

(Title of the Invention)

the specification of which

☒ is attached hereto

**OR**

☐ was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number	and was amended on (MM/DD/YYYY)	(if applicable).
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I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.


Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2]

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### DECLARATION — Utility or Design Patent Application

Direct all correspondence to: <input checked="" type="checkbox"/>		Customer Number or Bar Code Label		30499		OR <input type="checkbox"/>		Correspondence address below	
Name									
Address									
City				State		ZIP			
Country			Telephone				Fax		
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon									
NAME OF SOLE OR FIRST INVENTOR :				<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])					Family Name or Surname				
Inventor's Signature 					Date				
San Francisco			CA		USA		USA		
Residence: City			State		Country		Citizenship		
Mailing Address 21 Escondido Ave									
San Francisco			CA		94132		USA		
City			State		ZIP		Country		
NAME OF SECOND INVENTOR:				<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])					Family Name or Surname				
Inventor's Signature					Date				
Residence: City			State		Country		Citizenship		
Mailing Address									
City			State		ZIP		Country		
<input type="checkbox"/> Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto									

[Page 2 of 2]

# FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

Small Entity

Independent Inventor

**TOTAL FEES AUTHORIZED: \$ 697**

## BANK (CREDIT) CARD INFORMATION:

Credit Card Number: 8849  
 Expiration Date: 20021130  
 Authorized Name: Clifford Perry  
 Billing Address: 92007

## BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	201	\$ 370

Subtotal For Basic Filing Fee: \$ 370

## EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 27	203	\$ 9	7	\$ 63
Independent Claims: 5	202	\$ 42	2	\$ 84

Subtotal For Extra Claims Fees: \$ 147

## ADDITIONAL FEES

Fee Description	Number	Quantity	Fee Code	Amount	Fee Paid
Submission Of Information Disclosure Stmt Fee		1	126	\$ 180	\$ 180

Subtotal For Additional Fees: \$ 180